EASA	AIRWORTHINESS DIRECTIVE		
	AD No.: 2012-0254R1 Date: 21 December 2012 Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.		
This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].			
Design Approva	ıl Holder's Name:	Type/Model designation(s):	
INTERTECHNIQ	UE Aircraft Systems	MC10, MF10 and MF20 Oxygen Mask Regulators	
ETSO (JTSO) Authorisations: F.O.001, EASA.21O.10018220, DGAC France QAC 986489/SFACT/N, QAC 53194/SFACT/TC and QAC 53134/SFACT/TC.			
Foreign AD:	Not applicable		
Revision: This AD revises EASA AD 2012-0254 dated 29 November 2012.			
ATA 35	ATA 35 Oxygen – Flight Crew Oxygen Mask Regulator – Identification / Operational Procedure / Replacement		
Manufacturer(s):	Intertechnique (ERC	DS)	
Applicability:	Flight crew oxygen mask regulators, having Part Number (P/N) MC10, MF10 and MF20 series, with serial numbers (s/n) as listed in Appendix 1 of this AD.		
	The affected flight crew oxygen masks regulators are known to be installed on, but not limited to, aeroplanes manufactured by Airbus, ATR, Boeing, Bombardier (formerly Canadair, De Havilland Canada), Cessna, Gulfstream and McDonnell Douglas.		
Reason:	In a repair station, improper maintenance on oxygen mask regulators was reported to Intertechnique: during an inspection of the oxygen test bench by its manufacturer, incorrect settings were noticed. This test bench setting discrepancy on the oxygen mask regulator could cause an improper mask dilution schedule.		
	This condition, if not detected and corrected, could lead, in case of a diversion above 10 000 feet after a depressurization event, to the inhalation of air with improper content of oxygen, due to the bad dilution settings, thereby providing inadequate protection to the affected flight crew member against hypoxia, which can start from a headache and drowsiness and lead eventually to unconsciousness with severe consequence in term of aeroplane controllability.		
	For the reasons described above, this AD requires the identification and replacement of all potentially affected units. This AD also requires installation of a placard and implementation of an operational procedure pending replacement of the affected units.		

	This AD is revised to allow accomplishment of the actions as required by paragraph (2) of this AD within 30 days after the effective date of the original issue of this AD.	
Effective Date:	Revision 1: 21 December 2012	
	Original issue: 13 December 2012	
Required	Required as indicated, unless accomplished previously:	
Action(s) and Compliance Time(s):	(1) Within 30 days after 13 December 2012 [the effective date of the original issue of this AD], inspect each flight crew oxygen mask regulator to identify the P/N and s/n in accordance with the instructions of Intertechnique Service Bulletin (SB) MCF-SBU-35-001.	
	A review of aeroplane maintenance records is acceptable to make the determination as specified in this paragraph, provided those records can be relied upon for that purpose, and each flight crew oxygen mask regulator can be conclusively identified from that review.	
	(2) If the P/N and s/n, identified as required by paragraph (1) of this AD, are listed in Appendix 1 of this AD, within 30 days after 13 December 2012 [the effective date of the original issue of this AD], accomplish the actions of either paragraph (2.1) or (2.2) of this AD:	
	(2.1) Replace each affected flight crew oxygen mask regulator with a serviceable part, not having a P/N and s/n as listed in Appendix 1 of this AD, or with a part that has passed the test in accordance with the instructions of paragraph 3.A.(4) of Intertechnique SB MCF- SBU-35-001.	
	(2.2) Amend the Aircraft Flight Manual (AFM) and install a placard, as follows:	
	Aircraft Flight Manual	
	In case of depressurisation, both pilots must use the mask regulator on 100% Demand mode or Emergency mode only.	
	Insertion of a copy of this procedure into the applicable AFM is acceptable to comply with this requirement	
	NOTE 1: For oxygen over-consumption, refer to applicable aeroplane type certificate holder limitations, if existing, depending on the aeroplane configuration and/or flight plan.	
	NOTE 2: It is the operators' responsibility to assess the operational consequences of the oxygen over-consumption and ensure that the operational requirements with regard to Supplemental oxygen and Crew protective breathing equipment are still complied with. Operators are expected to amend, as applicable, their operations manual(s) accordingly.	
	Placard installation	
	Fabricate and install a placard on the flight crew oxygen mask container that states:	
	USE SELECTOR on "100%" OR "EMERGENCY" ONLY	
	(3) Within 12 months after 13 December 2012 [the effective date of the original issue of this AD], unless already accomplished as required by paragraph (2.1) of this AD, replace each affected flight crew oxygen mask regulator with a serviceable part, not having a P/N and s/n as listed in Appendix 1 of this AD, or with a part that has passed the test in accordance with the instructions of paragraph 3.A.(4) of Intertechnique SB MCF-SBU-35-001. After replacement of each affected flight crew oxygen mask regulator on an aeroplane, the actions as required by paragraph (2.2) of this AD are no	

	longer applicable and the AFM change and placard can be removed from the aeroplane accordingly. (4) From 13 December 2012 [the effective date of the original issue of this AD], do not install on an aeroplane a flight crew oxygen mask regulator with P/N and s/n as listed in Appendix 1 of this AD, unless it has passed the test in accordance with the instructions of paragraph 3.A.(4) of Intertechnique SB MCF-SBU-35-001.	
Ref. Publications:	Intertechnique SB MCF-SBU-35-001 Revision 00 dated 25 October 2012.	
	The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.	
Remarks:	 If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 	
	 Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication. 	
	 Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 	
	 For any question concerning the technical content of the requirements in this AD, please contact: Mr Jean-LouisTaillefert at Abu Dhabi Intl. Airport Cargo Village Area, P.O. Box 106675 - United Arab Emirates, Tel: +971 2 61 08 201 - Fax: +971 2 57 57 686, E-mail Jean-Louis.Taillefert@zodiacaerospace.com, or 	
	 For any question concerning the documentation (SB), please contact: Mr. Yann Laine at Intertechnique – Zodiac Services, Telephone +33 1 6486 6964, E-mail: yann.laine@zodiacaerospace.com. 	

APPENDIX I

Crew Oxygen Mask Regulators with a potential default of calibration

P/N	s/n
MC10-04-101	30971
MC10-04-102	8449
MC10-04-105	72298
MC10-04-105	72995
MC10-04-110	22002
MC10-04-110	72023
MC10-04-110	80304
MC10-04-127	9781
MC10-04-127	15866
MC10-04-127	20724
MC10-04-127	47085
MC10-04-127	70673
MC10-04-127	115086
MC10-04-21	5993
MC10-04-21	103899
MC10-04-27	2783
MC10-04-27	5862
MC10-04-27	9596
MC10-04-27	26995
MC10-04-27	28566
MC10-04-27	29918
MC10-04-27	32175
MC10-04-27	37234
MC10-04-27	47410
MC10-04-27	103887
MC10-04-27	104945
MC10-04-27	MS0004
MC10-04-27	QR18373
MC10-04-27	QR4343
MC10-04-127	48573
MC10-08-103	117806
MC10-08-103	118051
MC10-08-103	118052
MC10-08-109	65949

P/N	s/n
MC10-08-109	67487
MC10-08-109	70940
MC10-08-109	71728
MC10-08-109	71731
MC10-08-109	72034
MC10-08-109	72893
MC10-08-109	72894
MC10-08-109	72895
MC10-08-109	77044
MC10-08-109	77659
MC10-08-109	78271
MC10-08-109	80766
MC10-08-109	81660
MC10-08-109	82595
MC10-08-109	82596
MC10-08-109	87531
MC10-08-109	87533
MC10-08-109	88122
MC10-08-109	90813
MC10-08-109	98806
MC10-08-109	100825
MC10-08-109	116010
MC10-08-109	116456
MC10-08-109	116457
MC10-08-109	117350
MC10-08-109	117351
MC10-08-109	117427
MC10-08-109	ET1797
MC10-08-109	ET1962
MC10-08-109	ET2507
MC10-08-109	SE08317
MC10-08-109	SE10019
MC10-08-109	SE12428

P/N	s/n
MC10-08-109	SE12715
MC10-08-109	SE13002
MC10-08-109	SE13029
MC10-08-109	SE13030
MC10-08-109	SE13031
MC10-08-109	SE15068
MC10-08-109	SE15069
MC10-08-109	SE15070
MC10-08-109	SE15153
MC10-08-109	SE15914
MC10-08-124	7207
MC10-08-124	10452
MC10-08-124	105701
MC10-08-124	105702
MC10-08-124	N/N
MC10-08-25	46128
MC10-08-25	117698
MC10-15-107	78225
MC10-15-107	96184
MC10-15-107	99990
MC10-15-107	99991
MC10-15-107	102489
MC10-15-107	107397
MC10-15-158	62321
MC10-15-158	65458
MC10-15-158	69301
MC10-15-158	70816
MC10-15-158	70817
MC10-15-158	72371
MC10-15-158	72381
MC10-15-158	91013
MC10-15-158	100012
MC10-15-158	110332

P/N	s/n
MC10-19-101	15728
MC10-19-151	21767
MC10-19-151	34372
MC10-25-01	10132
MC10-25-104	5585
MC10-25-104	17272
MC10-25-104	19907
MC10-25-104	31747
MC10-25-104	32982
MC10-25-104	34489
MC10-25-104	36534
MC10-25-104	39354
MC10-25-104	55947
MC10-25-104	67103
MC10-25-104	68699
MC10-25-104	73018
MC10-25-104	76556
MC10-25-104	77060
MC10-25-104	77061
MC10-25-104	77062
MC10-25-104	77063
MC10-25-104	91403
MC10-25-104	91989
MC10-25-104	ET1152
MC10-25-104	SE08564
MC10-25-124	30512
MC10-25-124	32993
MC10-25-124	SE00216
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MC10-32-101	88778
MC10-32-101	106291
MC10-35-101	62403
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MF10-02-11	56007
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MF10-02-11	58470

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MF10-02-11 92101
MF10-02-11 93233
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MF10-05-11 1135

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MF20-534	SE09809
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